



# SAFETY DATA SHEET

*This Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)*

## 1. Product and Supplier Identification

**Product:** EFF-OFF!

**Product Use:** Efflorescence Remover

**Supplier:** CBR Products,  
#102, 876 Cordova Diversion  
Vancouver, BC Canada V6A 3R3  
Emergency Telephone: (604) 254-3325

**Manufacturer:** As above

## 2. Hazards Identification

### Routes of Entry:

Skin Contact: Yes  
Skin Absorption: No  
Eye Contact: Yes  
Ingestion: Yes  
Inhalation: No

**Acute Health Effects:** Direct contact may cause minor irritation of the skin. In persons predisposed to skin problems, minor rash may occur. Contact with the eyes may cause burns that may affect corneal opacity. Although ingestion is not a typical route of entry, ingestion may be harmful, or fatal depending upon quantity consumed. Due to the low volatility of this product, inhalation is unlikely. If product is atomized or misted, inhalation will cause moderate to severe irritation of the upper respiratory tract.

**Chronic Health Effects:** Prolonged contact with the skin may cause drying, defatting, redness, rash leading to dermatitis. Chronic inhalation of mists or vapours may cause irreversible lung damage.

**GHS Classification:** Corrosive to metals, Category 1  
Skin corrosion/irritation, Category 3  
Eye Damage/irritation, Category 1  
Acute toxicity, oral, Category 4

### GHS Hazard Statements:

H290: May be corrosive to metals (aluminum)  
H316: Causes mild skin irritation  
H319: Causes serious eye damage  
H302: Harmful if swallowed

## EFF-OFF! Efflorescence Remover

### GHS Precautionary Statements:

P234: Keep only in original container.  
P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P330: Rinse mouth.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P390: Absorb spillage to prevent material damage.  
P406: Store in corrosive resistant/... container with a resistant inner liner.  
P501: Dispose of contents/container to an approved waste disposal plant.

### Pictogram:



Signal Word: **Danger**

## 3. Composition

Component	% (w/w)	Exposure Limits (ACGIH) <sup>1</sup>	LD <sub>50</sub>	LC <sub>50</sub>
Organic acid salt (CAS No. 506-89-8)	47 - 53	TLV-TWA: Not established PEL-TWA: Not established	Not established	Not established
<b>GHS CLASSIFICATION:</b> CORR TO METALS, CAT 1; SKIN CORR, CAT 3, EYE DAM, CAT 1; ACUTE TOX, ORAL, CAT 4				
Non-hazardous ingredients and those below disclosure requirements	47 - 53	Not applicable	Not applicable	Not applicable

\* ACGIH: American Conference of Governmental Industrial Hygienists. Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area.

**ABBREVIATION KEY:** N/p: not published, N/d: not determined, N/ap: not applicable, N/av: not available

## 4. First Aid Measures

**EYE CONTACT:** Flush contaminated eye(s) with lukewarm, gently running water for 30 minutes, holding eyelids open. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash affected area immediately with mild soap and water and continue for 15 minutes. If irritation persists, seek immediate medical attention. Remove any contaminated clothing and launder clothing before reuse.

**INHALATION:** This is an unlikely route of entry, but if victim has been exposed to vapours remove to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Get medical attention immediately.

**INGESTION:** *Do not* induce vomiting. Give 3-4 glasses of water to dilute material. If vomiting occurs naturally, have victim lean forward with head between knees to reduce risk of aspiration. Seek medical attention.

## 5. Fire Fighting Measures

<b>Flash point:</b>	Not applicable
<b>Autoignition temperature:</b>	Not applicable. See information under "Fire Fighting Instructions"
<b>Lower Explosive Limit:</b>	Not applicable
<b>Upper Explosion Limit:</b>	Not applicable
<b>Sensitivity to Impact:</b>	Not sensitive.
<b>Sensitivity to Static Discharge:</b>	Not sensitive.
<b>Conditions to Avoid:</b>	Avoid heating to 100°C to avoid an exothermic reaction releasing carbon dioxide gas. Prevent contact with metals that may release flammable hydrogen gas.
<b>Hazardous Combustion Products:</b>	Burning may produce oxides of carbon, nitrogen, and chlorine.
<b>Extinguishing Media:</b>	Use a means of extinguishing surrounding fire. Use water spray to cool containers.
<b>Fire Fighting Instructions:</b>	This product is an aqueous solution, and will not combust. Do not enter confined fire space without proper personal protection. Use approved positive pressure self-contained breathing apparatus.

## 6. Accidental Release Measures

**Personal Protection:** See Section 8 for proper protective equipment to be worn while cleaning an accidental spill.

**Environmental Precautions:** Not expected to have any environmental impact.

**Cleanup Procedures:** Evacuate and ventilate area! Make sure spill does not contact any materials listed in Section 10, Incompatibility. Take precautions to prevent entry of the product into the environment. Absorb onto sand or other inert absorbent media. Shovel into approved closable waste containers for disposal. Thoroughly flush residue with water.

## 7. Handling and Storage

**Handling Procedures:** *Keep out of reach of children!* Use in an adequately ventilated area. Keep container tightly closed when not in use. Avoid methods of use that will cause misting of product. Launder clothing before reuse. Wash face and hands thoroughly after handling and before eating, drinking, or using tobacco products. Keep from freezing.

**Storage:** Store in cool, dry place and in an upright position to prevent leakage and away from acids. Product must be stored in fibreglass, polyethylene, or polypropylene drums at temperatures below 48°C. Do not store in metal drums.

## 8. Exposure Controls, Personal Protection

**Engineering Controls:** If used indoors, ensure adequate ventilation by using local exhaust.

**Respiratory Protection:** If product is atomized, or heated to product vapours, use a NIOSH approved organic vapour respirator. When cartridge type respirators are used, ensure that the cartridges are changed frequently. Dust masks will not remove acidic vapours or mist.

**Skin Protection:** Wear impervious gloves and clothing such as nitrile rubber or neoprene gloves and apron to prevent skin contact.

**Eye and Face Protection:** Chemical splash-proof goggles or a full face shield must be worn at all times.

**Footwear:** As required by worksite rules.

**Other:** Eye wash station should be located near work area.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Clear light amber coloured liquid
<b>Odour:</b>	Mild
<b>Odour Threshold:</b>	No data
<b>pH:</b>	0.5 – 1.0
<b>Melting Point/Freezing Point:</b>	-1°C
<b>Initial Boiling Point:</b>	100 °C
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	No data
<b>Flammability:</b>	Not applicable
<b>Upper Explosion Limit:</b>	Not applicable
<b>Lower Explosion Limit:</b>	Not applicable
<b>Vapour Pressure:</b>	No data
<b>Vapour Density:</b>	No data (air=1)
<b>Relative Density:</b>	1.05 – 1.15 (water=1)
<b>Solubility:</b>	Infinite solubility in water
<b>Partition Coefficient:</b>	No data
<b>Autoignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	No data
<b>Viscosity:</b>	No data

## 10. Stability and Reactivity

**Chemical Stability and Reactivity:** Product is stable up to 110°C. Product may react with strong mineral acids.

**Incompatibility:** Avoid contact with strong oxidizers. This product is extremely hazardous when in contact with chlorates or nitrates. Contact with hypochlorites such as household bleach may liberate toxic gases. Contact with alkaline materials such as household ammonia will cause liberation of heat. Hydrogen may be released upon contact with metals such as aluminum.

**Hazardous Decomposition Products:** Oxides of carbon, nitrogen, and chlorine.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

## 11. Toxicological Information

<b>Acute Exposure</b>	See Section 2
<b>Chronic Exposure:</b>	See Section 3.
<b>Exposure Limits:</b>	See Section 2.
<b>Irritancy:</b>	See Section 3.
<b>Sensitization:</b>	See Section 3.
<b>Carcinogenicity:</b>	Not listed by IARC, NTP or ACGIH
<b>Teratogenicity:</b>	Not available
<b>Reproductive toxicity:</b>	Not available
<b>Mutagenicity:</b>	Not listed
<b>Synergistic products:</b>	None reported.

## 12. Ecological Information

**Environmental toxicity:** No data available.

**Biodegradability:** No data available.

## 13. Disposal Considerations

**Canadian Environmental Protection Act:** All ingredients are listed on the DSL. Dispose according to all local, provincial and federal requirements.

## 14. Transport Information

**Canadian Transportation of Dangerous Goods Regulations:** UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(Urea Monohydrochloride), Class 8, P.G. III

**International Air Transport Association (IATA):** UN 3265, Corrosive Liquid, Acidic, Organic, n.o.s.(Urea Monohydrochloride), Class 8, P.G. III

**International Maritime Organization (IMO):** UN 3265, Corrosive Liquid, Acidic, Organic, n.o.s.(Urea Monohydrochloride), Class 8, P.G. III, EmS No F-A, S-B

**Marine Pollutant:** No

## 15. Regulatory Information

### Canadian Federal Regulations:

**Canadian Environmental Protection Act:** All ingredients are on the Domestic Substances List.

**WHMIS Classification:** E

**GHS Classification:** Corrosive to metals, Category 1  
Skin corrosion/irritation, Category 3  
Eye Damage/irritation, Category 1  
Acute toxicity, oral, Category 4

## 16. Other Information

**Original Preparation Date:** February 17, 2003

**Prepared by:** KJ Pearson and Associates Ltd., West Vancouver, B.C., Canada, V7W 1P3

**Disclaimer:** This Safety Data Sheet (SDS) was prepared in accordance with criteria and requirements of the Hazardous Products Act and the Controlled Products Regulations using information provided by the manufacturer and other sources including CCINFO (Chemical Information published by the Canadian Centre for Occupational Health and Safety). This SDS incorporates the safety requirements of The Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The information in this SDS is offered for your consideration and guidance when exposed to this product. CBR Products expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

*This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of CBR Products.*

**Latest Issue Date:** November 19, 2014